

CLAIMS

- [c1] 1. In a controller, a method for putting an inactive net in a group communication network into a dormant mode, the method comprising:
- determining whether the net has been inactive for a predetermined time period; and
- causing the net to enter the dormant mode if it is determined that the net has been inactive for the predetermined time period.
- [c2] 2. The method of claim 1, wherein the causing includes ordering each participating communication device in the net to release its air-traffic channel.
- [c3] 3. The method of claim 2 further including:
- maintaining sufficient connection for each participating communication device in the net for sending an out-of-dormant command.
- [c4] 4. The method of claim 2, wherein each participating communication device may ignore a go-dormant order.
- [c5] 5. The method of claim 1, further including:
- causing a new communication device attempting to participate in the net to enter the dormant mode.
- [c6] 6. The method of claim 1, further including:
- informing each participating communication device in the net that the net is put in the dormant mode.
- [c7] 7. In a controller, a method for bringing a net in a group communication network out of a dormant mode, the method comprising:
- receiving a floor-control request from a participating communication device in the net;
- and
- bringing the net out of the dormant mode if the request is granted.

[c8] 8. The method of claim 7, wherein the bringing the net out of the dormant mode includes sending wake-up commands to participating communication devices in the net before bringing the net out of the dormant mode.

[c9] 9. The method of claim 8, further including:
receiving responses to the wake-up commands from a number of participating communication devices in the net before bringing the net out of the dormant mode; and
bringing the net out of the dormant mode if the number exceeds a predetermined threshold number.

[c10] 10. The method of claim 9, further including:
un-registering communication devices that fail to respond to the wake-up requests within a predetermined time period.

[c11] 11. The method of claim 10, further including:
re-registering a communication device that later asks to re-join the net.

[c12] 12. The method of claim 8, further including:
bringing the net out of the dormant mode after a predetermined time period following sending the wake-up requests.

[c13] 13. The method of claim 7, further including:
buffering information received from the participating communication device before bringing the net out of the dormant mode.

[c14] 14. The method of claim 7, wherein the receiving includes receiving the floor-control request from a push-to-talk (PTT) device.

[c15] 15. In a controller, a computer-readable medium embodying a method for putting an inactive net in a group communication network into a dormant mode, the method comprising:
determining whether the net has been inactive for a predetermined time period; and
causing the net to enter the dormant mode if it is determined that the net has been inactive for the predetermined time period.

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[c16] 16. In a controller, a computer-readable medium embodying a method for bringing a net in a group communication network out of a dormant mode, the method comprising:

- receiving a floor-control request from a participating communication device in the net;
- and
- bringing the net out of the dormant mode if the request is granted.

[c17] 17. A controller for bringing a net in a group communication network out of a dormant mode, comprising:

- means for receiving a floor-control request from a communication device in the net; and
- means for bringing the net out of the dormant mode if the request is granted.

[c18] 18. A controller for putting a net in a group communication network into a dormant mode, comprising:

- means for determining whether the net has been inactive for a predetermined time period;
- and
- means for causing the net to enter the dormant mode if it is determined that the net has been inactive for the predetermined time period.

[c19] 19. A controller for putting an inactive net in a group communication network into a dormant mode, comprising:

- a receiver to receive information over the network;
- a transmitter to transmit information over the network; and
- a processor communicatively coupled to the receiver and the transmitter, the processor being capable of:
 - determining whether the net has been inactive for a predetermined time period; and
 - causing the net to enter the dormant mode if it is determined that the net has been inactive for the predetermined time period.

[c20] 20. A controller for bringing a net in a group communication network out of a dormant mode, comprising:

- a receiver to receive information over the network;
- a transmitter to transmit information over the network; and

a processor communicatively coupled to the receiver and the transmitter, the processor being capable of:

receiving a floor-control request from a participating communication device in the net;
and
bringing the net out of the dormant mode if the request is granted.

[c21] 21. In a controller, a method for putting an inactive communication device in a group communication network into a dormant mode, the method comprising:

determining whether the communication device has been inactive for a predetermined time period; and

causing the communication device to enter the dormant mode if it is determined that the communication device has been inactive for the predetermined time period.

[c22] 22. The method of claim 21, wherein the causing includes ordering the communication device to release its air-traffic channel.

[c23] 23. The method of claim 22 further including:
maintaining sufficient connection for the communication device for sending an out-of-dormant command.

[c24] 24. The method of claim 22, wherein the communication device may ignore a go-dormant order.

[c25] 25. In a controller, a method for bringing a communication device in a group communication network out of a dormant mode, the method comprising:

receiving a floor-control request; and

bringing the communication device out of the dormant mode if the request is granted.

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